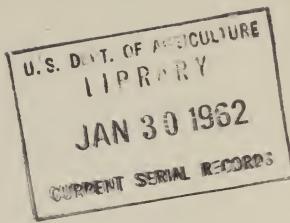


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GRADUATE SCHOOL • U. S. DEPARTMENT OF AGRICULTURE

Independence Avenue, between 12th and 14th Streets, Southwest, Washington 25, D. C.



register
Jan. 27-Feb. 3

- Courses for High School and College Graduates
- Training for Federal Employees

SCHEDULE OF CLASSES—CLASSES BEGIN FEBRUARY 5

No.	Course title (U.P.)	Instructor	Day	Time	Fee	Catalog page
Speech						
2-228	Public Speaking for Beginners (2) Miller W 6:10-8 \$24 p. 25					
2-229	Advanced Public Speaking (2) Nelson W 6:10-8 \$24 p. 26					
2-236	Voice and Oratory (2) Chamber Th 6:10-8 \$24 p. 26					
Foreign Languages						
Clauses						
2-200B	Mandarin Chinese (Second Half) (4) Tsao M Th 6:10-8 \$48 p. 26					
French						
2-253A	Elementary French (First Half) (3) Bargin Th 6:30-9 \$36 p. 26					
2-253B	Elementary French (Second Half) (3) Bargin F 6:30-9 \$36 p. 26					
2-251B	Intermediate French (Second Half) (3) Bargin Tu 6:30-9 \$36 p. 26					
2-68	Reading French—Grammar Review and Vocabulary (non credit) Virem W 6:10-8 \$24 p. 26					
2-37	Basic Conversational French (non credit) Bargin M 6:10-8 \$30 p. 27					
2-233	Advanced French Conversation and Composition (2) Virem Tu 6:10-8 \$30 p. 27					
2-59	Contemporary French Literature and Theatre (non credit) Virem M 6:10-8 \$24 p. 27					
German						
2-249B	Elementary German (Second Half) (3) Lederman Tu 6:10-8:40 \$36 p. 27					
2-488	Basic Conversational German I (non credit) von Lutzeck Th 6:10-8:40 \$36 p. 27					
2-496	Basic Conversational German II (non credit) von Lutzeck Th 6:10-8:40 \$36 p. 27					
2-66	Reading Scientific German (non credit) Lederman W 6:10-8:40 \$36 p. 28					
Italian						
2-270B	Elementary Italian (Second Half) (3) Ronchi M 6:10-8:40 \$36 p. 28					
Russian						
2-295A	Elementary Russian (First Half) (3) Seina F 6:10-8:40 \$36 p. 29					
2-295B	Elementary Russian (Second Half) (3) Seina M 6:10-8:40 \$36 p. 29					
2-296	Section I Seina Tu 6:10-8:40 (Meets at Plant Industry Station, Beltsville, Maryland)					
2-296B	Intermediate Russian (Second Half) (3) Feday M 6:10-8:40 \$36 p. 29					
Spanish						
2-300B	Elementary Spanish (Second Half) (3) Jaffe W 6:10-8:40 \$30 p. 29					
2-83	Basic Conversational Spanish I (non credit) Otero M 6:10-8 \$30 p. 30					
2-84	Basic Conversational Spanish II (non credit) Otero Tu 6:10-8 \$30 p. 30					
2-90	Latin American Literature (non credit) O'Hagan W 6:10-8 \$30 p. 30					
MATHEMATICS AND STATISTICS						
Mathematics						
3-8	Elementary Algebra (non credit) Schrimper Tu 6:10-8 \$24 p. 32					
3-101	Review of College Freshman Mathematics (Second Half) (non credit) Mahoney Tu 6:10-8 \$24 p. 33					
3-2	Review of Calculus (non credit) Ell M 6:10-8:40 \$36 p. 33					
3-102	College Algebra (1) McCord M W 6:10-8 \$18 p. 33					
3-103	Trigonometry and Analytic Geometry (1) Stearn M F 6:10-8 \$38 p. 33 (Student may register for either half. Those registering for the second half only should consult the Graduate School office for the opening date, just before the end of the first eight weeks.)					
3-206A	Calculus (First Half) (4) Mitchell MW 6:10-8 \$18 p. 33					
3-296C	Calculus (Second Half) (4) Mitchell Tu Th 6:10-8 \$18 p. 33					
3-310H	Introduction to Probability Theory (Second Half) (3) Ruff Tu 6:10-8:40 \$36 p. 34					
3-415B	Higher Algebra (Second Half) (3) Doyle Th 6:10-8:40 \$36 p. 34					
3-502B	Differential Equations (Second Half) (2) Mullin M 6:10-8 \$24 p. 34					
3-509B	Mathematics for Economists (Second Half) (3) Rioja W 6:10-8:40 \$36 p. 34					
3-510	Advanced Topics in Linear Programming (3) Gao and Associates M 6:10-8:40 \$16 p. 35					
3-521	Special Problems in Operations Research (3) Hafner M 6:10-8:40 \$36 p. 35					
3-701	Introduction to Modern Mathematics (3) Clark Th 6:10-8:40 \$36 p. 35					
3-707	Topics in Non-linear Mathematics (3) Saaty Th 6:10-8:40 \$36 (Emphasizes rapidly developing field of modern applied mathematics. Topics: Dependence of non-linearity and non-linearity in mathematics; non-linear algebraic equations; non-linear differential, integral, and integral equations; stability theory; control theory; and non-linear prediction. Prerequisites: Advanced calculus and differential equations.)					
Statistics						
3-6	Preparatory Mathematics for Introductory Statistics (non-credit) Suter M 6:10-8 \$21 p. 36					
3-126A	Introductory Statistics (First Half) (2) Raundschuhweber Tu 6:10-8 \$24 p. 36					
3-126B	Introductory Statistics (Second Half) (2) \$24 p. 36					
3-136	Section I Wilhem M 6:10-8:40					
3-315	Graphic Methods of Presenting Statistics (2) Gudey Th 6:10-8 \$24 p. 36					
3-319	Machine Tabulation I (2) Kaufman M 6:10-8:20 \$21 p. 36					
3-319B	Machine Tabulation II (2) Kaufman Tu 6:10-8:20 \$21 p. 36					
3-380B	Principles of Statistical Analysis (Second Half) (3) Stander Tu Th 6:7-15 \$36 p. 36					
3-385B	Elements of Statistical Methods (Second Half) (2) Hurrey W 4:15-6:16 \$24 p. 37 (Meets at Agricultural Research Center, Beltsville, Maryland)					
3-359B	Electronic Data Processing—General (Second Half) (3) Schwartz M 6:10-8:40 Sat p. 38					
3-569	Programming Solid State Systems I SS-90 and 90-100 Shunku Tu 6:10-8:40 \$36 p. 38					
3-565A	Data Processing on Electronic Computers—UNIVAC II (First Half) (2) Shunku Th 6:10-8:523 p. 38					
3-565B	Scientific and Business Data Processing on Electronic Computers—UNIVAC I (1953 and 1955) (See No. 311) (2) Cowling and O'Connor M 6:10-8:40 \$36 p. 38					
3-567A	Data Processing on Medium-Sized Electronic Computers—IBM 650 (First Half) (2) Taylor Th 6:10-8:40 \$24 p. 39					
3-567B	Data Processing on Medium-Sized Electronic Computers—IBM 650 (Second half) (2) Zelley W 6:10-8:40 \$24 p. 39					
3-580B	Data Processing on Medium-Sized Advanced Electronic Computers—IBM 7070 (No end) (2) Mann H 6:10-8:40 \$36 p. 39					
3-583A	Data Processing on Electronic Computers IBM 1101-1110 (First Half) (3) Stacey M 6:10-8:40 \$24 p. 39					
3-584B	Data Processing on Electronic Computers IBM 1101-1110 (Second Half) (3) \$36 p. 39					
3-585B	Section I Nucci Tu 6:10-8:40					
3-586B	Section II Stazy W 6:10-8:40					
3-760B	Programming Techniques for General Purpose Electronic Digital Computer—Scientific Applications (Second Half) (1) Fink Tu 6:10-8:40 \$36 p. 39					
3-735B	Theory of Sample Survey (Second Half) (2) Steinberg W 6:10-8 \$24 p. 40					
OFFICE TECHNIQUES AND OPERATIONS						
Administrative Procedures						
3-88	Gregg Shorthand (non-credit) Gregg-Shortland M 6:10-8:10 \$36 p. 42					
4-101	Executive Mathematics (2) Holt W 6:10-8 \$24 p. 42					
3-108	Administrative Procedure (2) Hickory Th 6:10-8 \$24 p. 42					
3-201	Modern Supervisory Practice (2) Van Dusen M 6:10-8 \$34 p. 42					
3-206	Essentials of Good Office Management (3) Waggoner W 6:10-8:16 \$36 p. 42					
3-122B	Federal Fiscal Procedure (One and Half) (2) Krueger Tu 6:10-8 \$24 p. 43					
3-111	Federal Property Procedure (2) Ginn Th 6:10-8 \$24 p. 43					
3-112	Federal Personnel Procedure (2) Stason Th 6:10-8 \$24 p. 43					
3-115	Federal Budgetary Procedure: Execution and Fund Control (2) Persol and Walker Tu 6:10-8 \$24 p. 44					
3-217	Advanced Records Management (2) Lattrell and Lunde Tu 6:10-8 \$24 p. 44					
3-336	Government Letter Writing (2) Boyd Th 6:10-8 \$24 p. 44					
3-421	Writing Procedures and Instructions (2) Osgood Th 6:10-8 \$24 p. 44					
Shorthand						
3-89	Review of Gregg Shorthand (Anniversary) 60-80 Words (non-credit) Dow M Th 6:10-7:30 \$36 p. 45					
1-129	Gregg Shorthand I (3) Valline M Th 6:10-7:30 \$36 p. 45					
3-130	Gregg Shorthand II (3) Dell M Th 6:10-7:30 \$36 p. 45					
3-225	Gregg Shorthand III (60-80 Words) (3) Instructor to be announced M Th 6:10-7:30 \$36 p. 45					
3-226	Gregg Shorthand IV (60-100 Words) (3) Walker M Th 6:10-7:30 \$36 p. 46					
3-227	Gregg Shorthand V (100-120 Words) (3) Butler M Th 6:10-7:30 \$36 p. 46					
PHYSICAL SCIENCES						
3-763B	Practical Electronics for Biologists and Chemists (Second Half) (2) \$24 p. 47 Section I Norris Tu 4:45-6:35 (Meets at Plant Industry Station, Beltsville, Maryland) Section II Wilkins M 6:10-8					
Chemistry						
3-100H	General Chemistry (Second Half) (3) Jauhlin Tu 4:45-7:15 \$36 p. 48 (Meets at Plant Industry Station, Beltsville, Maryland)					
3-218B	Organic Chemistry (Second Half) (3) Alexander Th 4:45-7:20 \$36 p. 48 (Meets at Plant Industry Station, Beltsville, Maryland)					
3-315B	Elementary Biochemistry (Second Half) (3) Shappard W 6:10-8 \$24 p. 48					
Geography and Geology						
3-201	Historical Geology (3) Douglass Tu 6:10-8:10 \$36 p. 49					
3-531	Silis: Their Morphology, Genesis, and Classification (3) Simonson Tu-Th 4:45-6:36 p. 49 (Meet at Plant Industry Station, Beltsville, Maryland)					
Astrology						
3-226	General Meteorology (3) Gombyre W 6:10-8:40 \$36 p. 51					
3-531B	Introduction to Dynamic Meteorology (Second Half) (3) Malkin Th 6:10-8:40 \$36 p. 51					
3-590	Literature of Meteorology (2) Sharrod Tu 6:10-8 \$24 p. 52					
Geography						
3-582	Mathematics for Oceanographers (2) Winger Tu 4:30-6:20 \$24 p. 53					
3-175	Principles of Underwater Sound (2) Schulkin M 1:30-2:20 \$24 p. 53					
3-176	Applied Underwater Sound (2) Schulkin Th 1:30-2:20 \$24 p. 53					
3-583	Practical Electronics for Oceanographers (2) Bailey W 4:30-6:20 \$24 p. 54 (Course in oceanography generally used at the Navy Hydrographic Office, San Juan, Puerto Rico)					
General Administration						
3-211	American National Government (2) Nelson Th 6:10-8 \$24 p. 57					
3-100	Administrative Operations for Congressional Assistants (2) Eller W 6:10-8 \$24 p. 58					
PUBLIC ADMINISTRATION						
3-211	American National Government (2) Nelson Th 6:10-8 \$24 p. 57					
3-100	Administrative Operations for Congressional Assistants (2) Eller W 6:10-8 \$24 p. 58					
No.	Course title (U.P.)	Instructor	Day	Time	Fee	Catalog page
6-131	Applied Human Relations in Administration (3) Ennis W 6:10-8:40 \$36 p. 58					
6-600	Readings in Public Administration (3) Thurston (Coordinator) To be arranged \$36 p. 58					
American History						
6-251	American History Since 1865 (3) Bussey W 6:10-8:40 \$36 p. 59					
Management Analysis						
6-107	Staff Function of Management Analysis (2) Cook Tu 6:10-8 \$24 p. 59					
6-309	Quantitative Management Survey (2) Echols M 6:10-8 \$24 p. 59					
6-112	Section I Echols M 6:10-8					
6-310	Section II Echols M 6:10-8					
6-519	Reports and Forms Management (2) Lewis and Rice Tu 6:10-8 \$24 p. 60					
6-550	Work Standards and Work Measurement (2) Schneider W 6:10-8 \$24 p. 60					
Personnel Administration						
6-201	Modern Supervisory Practice (2) Van Dusen M 6:10-8 \$24 p. 62					
6-111	Federal Personnel Procedure (2) Stinson M 6:10-8 \$24 p. 62					
6-130	Public Personnel Administration (3) Terry M 6:10-8:30 \$36 p. 62					
6-205	Safekeeping Program (2) Pope M 6:10-8 \$24 p. 62					
6-310	Group Insurance (2) Zissman M 6:10-8 \$24 p. 62					
6-110	Position Classification (2) Luxton and Findlay Tu 6:10-8 \$24 p. 63					
6-118	Salary Administration (2) Hough Tu 6:10-8 \$24 p. 63					
6-512	Employment and Placement (2) Hornet M 6:10-8 \$24 p. 63					
6-518	Employee Training and Development (2) Hartman Th 6:10-8 \$24 p. 63					
6-610	Statistical Sampling for Financial Management (3) Mandell Tu 6:10-8 \$24 p. 63					
6-313	Statistical Sampling (2) Cooper W 6:10-8 \$24 p. 63					
6-314	Statistical Sampling for Financial Management (3) Mandell Tu 6:10-8 \$24 p. 63					
SOCIAL SCIENCES						
General Economics						
7-201B	Principles of Economics (Second Half) (3) Stocker W 6:10-8:40 \$36 p. 67					
3-509B	Mathematics for Economists (Second Half) (3) Rojko W 6:10-8:40 \$36 p. 67					
7-518	Economic Analysis (First Half) (3) Vogely Th 6:10-8:40 \$36 p. 67					
7-215	Economic Indicators (2) Groce W 6:10-8 \$24 p. 67					
7-168	Macroeconomics (3) Snitler Th 6:10-8:40 \$36 p. 67					
Agricultural Economics						
7-157H	Economics of Agricultural Development (Second Half) (3) Christensen S 9:30-12 \$36 p. 67					
7-716	Agricultural Policies and Programs—Seminar (2) Witcox and Cochrane M 6:10-8 \$24 p. 67					
7-718	Land and Water Policies—Seminar (2) Ryagon and Steele W 6:10-8:40 \$24 p. 67					
7-722	Marketing—Seminar (2) Telogenow Tu 6:10-8:40 \$24 p. 67					
7-103	Highway Analysis in Agriculture (3) Dill M 6:10-8:40 \$36 p. 67					
Human Relations						
7-210	General Psychology (1) Fitzpatrick Tu 6:10-8:40 \$36 and \$1 laboratory fee p. 68					
7-166	Personal Semantics—Seminar (2) Eldridge W 7:10-9 \$34 p. 68					
7-112	Personality Integration and Problems in Living (2) Cornwell M 6:10-8:40 \$24 p. 68					
7-508	World Population Trends and Problems (3) Siegel Tu 6:10-8:40 \$36 p. 68					
7-511	Imposing Human Relations and Group Behavior (2) Buder M 6:10-8:40 \$24 p. 68					
7-512	Russia Yesterday, Today, and Tomorrow (2) Czajkowski W 6:10-8:40 \$24 p. 68					
7-610	Medical Sociology (2) Kinner M 6:10-8:40 \$24 p. 68					
7-611	Medical Sociology (2) Kinner M 6:10-8:40 \$24 p. 68					
7-612	Medical Sociology (2) Kinner M 6:10-8:40 \$24 p. 68					
7-613	Seminar on Psychological Literature (3) Fitzpatrick Tu 6:10-8:40 \$36 p. 68					
7-600	Readings and Papers in Human Relations (3) Fitzpatrick To be arranged \$36 p. 68					
Engineering						
8-92	Review of Engineering Fundamentals for P. E. Examination (non-credit) Rixse W 6:10-8:40 \$36 p. 69					
8-9						

PHYSICAL SCIENCES

General
1-765B Practical Electronics for Biologists and Chemists, 1986, 1st ed., 200 pp., £12.50

• 117

(land.) Section II Wilkins M 6 D 18

Chemistry
5-10011-6 (v. 1991)

1004. General Chemistry (Second Half) (3) Inquiries To 446-7115 \$36 p. 18 (Meets at Plant Industry Station, Beltsville, Maryland)

5-215 H. (Org)

6-315B. Elementary Biochemistry (Second Half) 12 Shippard W 6:10 A \$2.10 10-18

Geography and

6-201. Historical Geology (3) Douglass Tu 0:10:8:10 \$36 p. 10

Soil Sciences
521 No. 1

5-531. Soils: Their Morphology, Genesis, and Classification 131 Simonson Tn-Th 1946-6
\$36 p. 19 (Mer.) at Plant Industry Station, Beltsville Maryland.)

Aclatology

-326. General Meteorology (3) Gombyrar W 6:10 8:40 \$38 p. 51

· 5313. Int

590. Literature of Meteorology (2) Shorrod Tn 0.10 s \$24 p. 62

phy generally used in the Navy Hydro-

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GRADUATE SCHOOL,

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1962 SPRING SCHEDULE OF CLASSES

